

Application Serial No: 10/064,924
Response dated: November 18, 2003
Reply to Non-Compliant Amendment of October 30, 2003

Abstract

The capsule and method for its filling concern to engineering of storage of gases and may be used in medicine, in household chemistry, in fire engineering, in perfumery, as a source of gas for inflatables etc. The invention will allow to simplify and speed up processes of creation of superfluous pressure in aerosol and others inflatable products to raise safety of their operation. The capsule for storage of gas contains the gas proof body, inside which the sorbent material particles for gas sorbing are placed, and which is provided by the outlet sealed channel. According to the invention the body contains the sorbent free space, which volume is sufficient to place the preset amount of the gas to be sorbed in the solid phase, and is so made, that the gas to be sorbed can be brought into the body in the solid phase. The method of charging the capsule with sorbent gas by placing the sorbent into the capsule, containing the gas proof body, possessing the sorbent particle retention properties, and being able to outlet the gas from the capsule, to sorb the gas by means of the sorbent. According to the invention inside a capsule the free space is formed, where the preset amount of the gas to be sorbed in the solid phase is loaded.